## **IPFX-E40V-IRW1** 4MP Starlight Eyeball Network Camera

REALTIME



### System Overview

The IPFX-E40V-IRW1 is a 4MP varifocal eyeball style camera. Featuring a 4MP, 1/3" low illuminance, high image definition CMOS image sensor on top a 2.7 mm–13.5 mm motorized varifocal lens and Starlight support, the camera excels in low light environments. The camera is also equipped with a built-in microphone for audio, H.265 compression and IP67 protection.

This camera also utilizes IC Realtime's advanced AI capabilities with Intelligent Motion Detect and Perimeter Protection. This technology utilizes a deep learning algorithm that recognizes people and vehicles, which drastically reduces false positives, enabling a more optimized search function.

## Functions

#### Starlight Technology

Featuring Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.005 lux).

#### **Perimeter Protection**

IC Realtime's Perimeter Protection features significantly improve detection accuracy. The benefits of Perimeter Protection include up to a 90% reduction in false alarms. Other advantages include a decrease in pixel count requirement for object detection, which translates into more efficiency with less strain on the system. Perimeter Protection options let you customize tripwires based on the object type and allow intelligent automation within a limited area of access such as pedestrian or vehicle-only zones. The combination of advanced Al analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- H.265 & H.264 triple-steam encoding
- Outputs max. 4MP (2688 × 1520)@30 fps
- Intelligent Motion Detect and Perimeter Protection
- WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC,
- Starlight, Max. IR LEDs Length 131 ft, Built-in Mic
- Micro SD memory, IP67, PoE

#### iMD (Intelligent motion Detect)

This is an upgraded version of motion detection currently known as Intelligent Motion Detection (iMD). The upgraded Plus version greatly improves alarm accuracy by pre-loading a deep learning algorithm that recognizes people and vehicles. Motion detection alerts containing a human and/or vehicle intrusion event are now possible with up to 95% accuracy. Eliminate false alarms, save time and keep stress levels low knowing you're protected.

#### Protection (IP67, wide voltage)

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.

#### Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

#### Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.



# **Technical Specification**

### Camera

Image Sensor	1/3" 4 Megapixel progressive CMOS
Effective Pixels	2688 (H) ×1520 (V)
RAM/ROM	512MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Minimum Illumination	0.005 Lux@F1.5
S/N Ratio	> 56 dB
IR Distance	40 m (131.2 ft)
IR On/Off Control	Auto / Manual
IR LEDs	2

#### Lens

Lens Type		Motorized vari	-focal		
Mount Type		φ14			
Focal Length		2.7 mm-13.5 mm			
Max. Aperture		F1.5			
Angle of View		Horizontal: 104°–27° Vertical: 55° –15°			
Iris Type		Fixed			
Close Focus Distance		0.8 m (2.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	210 ft	84 ft	42 ft	21 ft
	Т	728 ft	291 ft	145 ft	72 ft

#### Pan/Tilt/Rotation

Pan/Tilt/Rotation Range Horizontal: 0°-360°; vertical: 0°-78°; rotation: 0°-360°

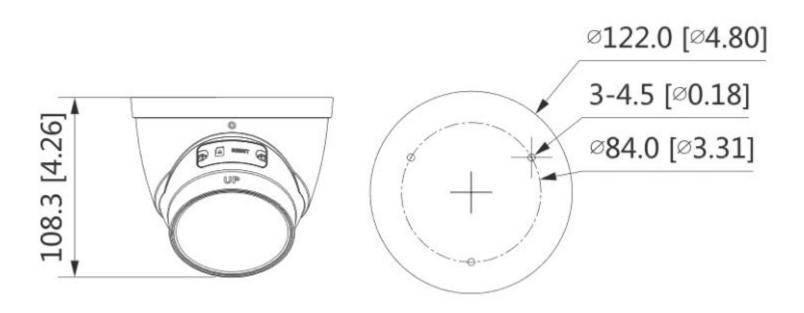
### Intelligence

Intelligence	
Perimeter Protection	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)
Intelligent Motion Detect (iMD)	Motion detection alarm for human and vehicle. Filters misinformation such as leaves and light.
Intelligent Search	Works together with Al-enabled NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Compression	H.265; H.264; H.264H; H.264B; MJPEG (sub stream only)
Streaming Capability	3 Streams
Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream:2688 × 1520@1–25/30 fps
	Sub stream: 704 × 576 @1–25 fps/ 704 × 480 @ 1–30 fps
	Third Stream: 1280 × 720@1–25/30 fps
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)

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Edge StorageLocal PC for instant recordingWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmartlCRSS, DSSSmart PhoneIOS, AndroidCertificationsCE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU CE: 47 CFR FCC Part 15, Subpart BUL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07InterfaceN/AAudio InterfaceAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceDC12V, PoE (802.3af)Power SupplyDC12V, PoE (802.3af)Power Consumption-30°C to +60°C (-22°F to +140°F)/Less than 95% RHStorage Conditions-40°C to +60°C (-40°F to +140°F)Ingress ProtectionIP67Construction108.3 mm × 122 mm (4.3" × 4.8")DimensionsN(3.3 mm × 122 mm (4.3" × 4.8")Net Weight685g (1.5 lb)	Max. User Access	20 (Total bandwidth: 64 M)		
Management SoftwareSmartlCRSS, DSSSmart PhoneIOS, AndroidCertificationsCertificationsCE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart BUL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07InterfaceVideo InterfaceN/AAudio InterfaceN/AAudio InterfaceN/AAudio InterfaceDC12V, POE (802.3af)Power SupplyDC12V, POE (802.3af)Power Consumption<8.3W	Edge Storage			
Smart PhoneIOS, AndroidSmart PhoneIOS, AndroidCertificationsCertificationsCE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart BUL/CU: UL60950-1 CAN/CSA C22.2 No.60950-1-07InterfaceVideo InterfaceAudio InterfaceN/AAudio InterfaceN/AAuarnVAPower SupplyDC12V, POE (802.3af)Power Consumption<8.3W	Web Viewer	IE, Chrome, Firefox, Safari		
Certifications   CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU EU/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07     Interface   N/A     Audio Interface   N/A     Audio Interface   Built-in Microphone     Alarm   N/A     Power Supply   DC12V, PoE (802.3af)     Power Consumption   63.3W     Enertical	Management Software	SmartICRSS, DSS		
CertificationsCE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FC: 47 CFR FCC Part 15, Subpart BUL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07InterfaceN/AAudio InterfaceN/AAudio InterfaceBuilt-in MicrophoneAlarmN/APower SupplyDC12V, PoE (802.3af)Power Consumption-30°C to +60°C (-22°F to +140°F)/Less than 95% RHStorage Conditions-40°C to +60°C (-40°F to +140°F)/Less than 95% RHStorage Conditions-40°C to +60°C (-40°F to +140°F)Ingress ProtectionID67ConstructionMailDimensionsMailMetal108.3 mm × 122 mm (4.3" × 4.8")Net Weight685g (1.5 lb)	Smart Phone	IOS, Android		
CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU Sci 47 CFR FCC Part 15, Subpart BUL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07InterfaceN/AVideo InterfaceN/AAudio InterfaceBuilt-in MicrophoneAlarmN/AFlettricalConstructionPower SupplyDC12V, PoE (802.3af)Power Consumption-30°C to +60°C (-22°F to +140°F)/Less than 95% RHOperating Conditions-30°C to +60°C (-40°F to +140°F)Storage Conditions-40°C to +60°C (-40°F to +140°F)Ingress ProtectionMetalConstructionMetalCinangMetalDimensionsSis Jims 122 mm (4.3° × 4.8")Net WeightBis Jin Sis Michaelee	Certifications			
Video InterfaceN/AAudio InterfaceBuilt-in MicrophoneAlarmN/AElectricalN/APower SupplyDC12V, PoE (802.3af)Power Consumption<8.3W	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart		
Audio InterfaceBuilt-in MicrophoneAlarmN/AElectricalN/APower SupplyDC12V, PoE (802.3af)Power Consumption<8.3W	Interface			
AlarmN/AAlarmN/AAlarmN/AFlectricalCPower SupplyDC12V, PoE (802.3af)Power Consumption <a.3w< td="">Power Consumption<a.3w< td="">Poperating Conditions-30°C to +60°C (-22°F to +140°F)/Less than 95% RHStorage Conditions-40°C to +60°C (-40°F to +140°F)Ingress ProtectionIP67ConstructionMetalCasingMetalDimensions18.3 mm × 122 mm (4.3" × 4.8")Net Weight685g (1.5 lb)</a.3w<></a.3w<>	Video Interface	N/A		
Flectrical     DC12V, PoE (802.3af)       Power Supply     DC12V, PoE (802.3af)       Power Consumption     <8.3W	Audio Interface	Built-in Microphone		
Power Supply DC12V, PoE (802.3af)   Power Consumption <8.3W	Alarm	N/A		
Power Consumption     <8.3W	Electrical			
Environmental -30°C to +60°C (-22°F to +140°F)/Less than 95% RH   Operating Conditions -30°C to +60°C (-40°F to +140°F)/Less than 95% RH   Storage Conditions -40°C to +60°C (-40°F to +140°F)   Ingress Protection IP67   Construction IN08.3 mm × 122 mm (4.3" × 4.8")   Dimensions 685g (1.5 lb)	Power Supply	DC12V, PoE (802.3af)		
Operating Conditions     -30°C to +60°C (-22°F to +140°F)/Less than 95% RH       Storage Conditions     -40°C to +60°C (-40°F to +140°F)       Ingress Protection     IP67       Construction       Casing     Metal       Dimensions     108.3 mm × 122 mm (4.3" × 4.8")       Net Weight     685g (1.5 lb)	Power Consumption	<8.3W		
Operating Conditions     -30°C to +60°C (-22°F to +140°F)/Less than 95% RH       Storage Conditions     -40°C to +60°C (-40°F to +140°F)       Ingress Protection     IP67       Construction       Casing     Metal       Dimensions     108.3 mm × 122 mm (4.3" × 4.8")       Net Weight     685g (1.5 lb)	Environmental			
Storage Conditions -40°C to +60°C (-40°F to +140°F)   Ingress Protection IP67   Construction   Casing Metal   Dimensions 108.3 mm × 122 mm (4.3" × 4.8")   Net Weight 685g (1.5 lb)		–30°C to +60°C (–22°F to +140°F)/Less than 95% RH		
Ingress Protection IP67   Construction Metal   Casing Metal   Dimensions 108.3 mm × 122 mm (4.3" × 4.8")   Net Weight 685g (1.5 lb)				
Construction     Metal       Casing     Metal       Dimensions     108.3 mm × 122 mm (4.3" × 4.8")       Net Weight     685g (1.5 lb)		IP67		
Casing     Metal       Dimensions     108.3 mm × 122 mm (4.3" × 4.8")       Net Weight     685g (1.5 lb)	-			
Dimensions     108.3 mm × 122 mm (4.3" × 4.8")       Net Weight     685g (1.5 lb)		Metal		
Dimensions     (4.3" × 4.8")       Net Weight     685g (1.5 lb)	-			
	Dimensions			
Gross Weight 828 g (1.8 lb)	Net Weight	685g (1.5 lb)		
	Gross Weight	828 g (1.8 lb)		



Dimensions (mm/in)



### Accessories

